

WHAT IS CLAIMED IS:

1. A form puller device for extracting the concrete form work from the edges of a concrete slab section after the concrete has cured; the form puller device comprising:

- (a) a lever assembly;
- 5 (b) a fulcrum assembly;
- (c) a form pulling member; and
- (d) an embedded element extraction assembly;

the fulcrum assembly including a base having a vertically oriented fulcrum tube extending upwardly from the base;

10 the lever assembly including a tubular lever member pivotally connected to a top end of the fulcrum tube of the fulcrum assembly and having a first end rigidly connected to a U-shaped handle assembly and a second end pivotally connected to the form pulling member;

the form pulling member including a form pulling member tube having a top end and a bottom end and a number of pivot holes spaced along a top portion thereof to allow the form pulling member to be pivotally attached to the second end of the lever assembly at various heights along the length thereof and a section of angled stock connected to the bottom end of the form pulling member tube; the angled stock being perpendicular to the form pulling member tube for positioning beneath a section of concrete forming material so that the forming material can be extracted as needed by pushing down on the U-shaped handle assembly of the lever assembly when the angle stock is in place;

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the embedded element extraction assembly including a body component for engaging an embedded element, and an attachment component for connecting the body component to the angled stock.

2. The apparatus of claim 1, wherein the body component of the embedded element extraction
5 assembly comprises a hole formed therein for fitting around the embedded element; said hole having a diameter smaller than the diameter of the embedded element.

3. The apparatus of claim 2, wherein the attachment component of the embedded element extraction assembly is a chain, and wherein the angled stock comprises a pin formed to receive the chain to connect the embedded element extraction assembly to the angled stock.

10 4. The apparatus of claim 3, wherein the vertical member of the fulcrum assembly, the horizontal member of the lever assembly, and the pulling member are fabricated from structural tubing.

5. The apparatus of claim 1, wherein the body component of the embedded element extraction assembly comprises: (i) a wedge-shaped recess for receiving the embedded element, (ii) a first chain
15 for wrapping around the embedded element and biasing the element in engagement with the wedge-shaped recess, and (iii) a keyhole for receiving and locking the first chain in place to hold the embedded element in engagement with the wedge-shaped recess.

6. The apparatus of claim 5, wherein the attachment component of the embedded element extraction assembly is a second chain, and wherein the angled stock comprises a pin formed to receive the second chain to connect the embedded element extraction assembly to the angled stock.

7. The apparatus of claim 6, wherein the vertical member of the fulcrum assembly, the horizontal member of the lever assembly, and the pulling member are fabricated from structural tubing.

8. Apparatus for extracting a concrete form from the edge of a concrete section after the concrete section has cured, said apparatus comprising:

(a) a fulcrum assembly comprising: (i) a vertical member having an upper end and a lower end, and (ii) a stabilizing base rigidly connected to the lower end of the vertical member;

(b) a lever assembly comprising: (i) a horizontal member having a first end and a second end, said horizontal member being pivotally connected to the upper end of the vertical member of the fulcrum assembly at a position between the first end and second end, and (ii) a U-shaped handle assembly rigidly connected to the first end of the horizontal member;

(c) a form pulling assembly comprising: (i) a pulling member having a top end pivotally connected to the second end of the horizontal member of the lever assembly and a bottom end, and (ii) an angle section comprising a flat horizontal element, said angle section rigidly connected to the bottom end of the pulling member, said flat horizontal element arranged for positioning beneath the concrete form to facilitate extraction of the concrete form from the concrete section; and

(d) an extraction assembly comprising a body component for engaging an embedded element, and an attachment component for connecting the extraction assembly to the form pulling assembly.

9. The apparatus of claim 8, wherein the body component of the extraction assembly comprises
5 a hole formed therein for fitting around the embedded element; said hole having a diameter smaller than the diameter of the embedded element.

10. The apparatus of claim 9, wherein the attachment component of the extraction assembly is a chain, and wherein the angled stock comprises a pin formed to receive the chain to connect the extraction assembly to the form pulling assembly.

10 11. The apparatus of claim 10, wherein the vertical member of the fulcrum assembly, the horizontal member of the lever assembly, and the pulling member of the form pulling assembly are fabricated from structural tubing.

12. The apparatus of claim 8, wherein the body component of the extraction assembly comprises:
(i) a wedge-shaped recess for receiving the embedded element, (ii) a first chain for wrapping around
15 the embedded element and biasing the element in engagement with the wedge-shaped recess, and
(iii) a keyhole for receiving and locking the first chain in place to hold the embedded element in engagement with the wedge-shaped recess.

13. The apparatus of claim 12, wherein the attachment component of the extraction assembly is a second chain, and wherein the angled stock comprises a pin formed to receive the second chain to connect the extraction assembly to the form pulling assembly.

14. The apparatus of claim 13, wherein the vertical member of the fulcrum assembly, the horizontal member of the lever assembly, and the pulling member of the form pulling assembly are fabricated from structural tubing.

15. An extraction assembly for engaging an embedded element, said extraction assembly comprising a body component for engaging the embedded element, and an attachment component for connecting the body component to a concrete form puller device; wherein the concrete form puller device may be used to deliver an upward force of sufficient magnitude to extract the embedded element via the extraction assembly.

16. The apparatus of claim 15, wherein the body component of the extraction assembly comprises a hole formed therein for fitting around the embedded element; said hole having a diameter smaller than the diameter of the embedded element.

17. The apparatus of claim 16, wherein the attachment component of the embedded element extraction assembly is a chain, and wherein the concrete form puller device comprises a pin formed to receive the chain.

18. The apparatus of claim 15, wherein the body component of the embedded element extraction assembly comprises: (i) a wedge-shaped recess for receiving the embedded element, (ii) a first chain

for wrapping around the embedded element and biasing the element in engagement with the wedge-shaped recess, and (iii) a keyhole for receiving and locking the first chain in place to hold the embedded element in engagement with the wedge-shaped recess.

19. The apparatus of claim 18, wherein the keyhole comprises: (i) a first section which has a
5 diameter larger than the width of the first chain to permit the first chain to pass therethrough, and (ii) a second section which has a diameter larger than the diameter of the first chain and smaller than the width of the first chain to lock the first chain in place; wherein the first chain is moveable between the first section and the second section.

20. The apparatus of claim 19, wherein the attachment component of the embedded element
10 extraction assembly is a second chain, and wherein the concrete form puller device comprises a pin formed to receive the second chain.